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## In the claims:

1. (currently amended) A power strip, comprising:

a housing having a first end and a second end;

a plurality of power outlets a first group of power outlets and a second group of power outlets mounted on an exterior surface of the housing;

a power management circuit defined on an interior region of the housing, including:

a current sensor circuit that is adapted to receive input power over an input power line, the current sensor circuit being coupled to a power supply and to the <u>first group of</u> power outlets;

a micro-controller coupled to the power supply and to a relay driver, the relay driver receiving control signals from the micro-controller;

an input power source sensor circuit, coupled intermediate the power supply and the micro-controller, to receive primary input power from the power supply and secondary input power from a secondary power source, whereby the input power source sensor circuit provides the primary input power to the micro-controller and if the primary input power fails, the input power source sensor circuit provides the secondary input power to the micro-controller; and

a plurality of relays coupled to the relay driver and to the <u>second group of power</u> outlets,

wherein the relays receive a control signal from the relay driver to actuate the relays to a conductive state to powering-on the power outlets and the relays receive another control signal from the relay driver to actuate the relays to a nonconductive state to powering-off the power outlets; and

an under voltage sensor coupled to the micro-controller and adapted to receive a predetermined voltage-value from the power supply and being responsive to the predetermined voltage-value falling below a predetermined threshold value by providing a reset signal to the micro-controller.

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2. (canceled)

3. (canceled)

4. (currently amended) The power strip of claim 3 1, wherein the power strip further

includes a plurality of communication ports.

5. (previously amended) The power strip of claim 4, wherein the communication

ports include a first communication port coupled to a communication-in circuit and a second

communication port coupled to a communication-out circuit, the communication-in circuit and

the communication-out circuit being further coupled to the micro-controller.

6. (original) The power strip of claim 5, wherein the communication-in circuit

includes the secondary power source.

7. (previously canceled)

8. (previously amended) The power strip of claim 6, wherein the micro-controller is

further coupled to a non-volatile memory device.

9. (original) The power strip of claim 8, wherein the micro-controller is further

coupled to an audible alarm that can alert an operator that current on the input power line has

exceeded a predetermined threshold value.

10. (previously amended) The power strip of claim 9, wherein the micro-controller is

further coupled to a mute button that is actuated to silence the audible alarm.

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11. (original) The power strip of claim 10, wherein the micro-controller is further coupled to an overload light-emitting-diode which is controlled to illuminate with a predetermined frequency to indicate an overload status of the input power line.

- 12. (original) The power strip of claim 11, wherein the second group of power outlets includes a plurality of light emitting diodes that can each be controlled to illuminate to indicate that an associated outlet is powered-on.
- 13. (previously amended) A power distribution method comprising the steps of: energizing an input power line to power-up a first group of power outlets on a power distribution system;

initializing the power distribution system, initializing including the steps of:

programming a normal-threshold value into the power distribution system;

programming an overload-threshold value into the power distribution system;

programming an under-voltage threshold value into the power distribution

system; and

controlling a plurality of relays to actuate to a conductive state in accordance with a predetermined sequence and a predetermined delay to sequentially power-on a second group of power outlets on the power distribution system.

14. (previously amended) The power distribution method of claim 13, wherein initializing further includes the steps of:

programming delays into the power distribution system, the delays being related to powering-on and powering-off the second group of power outlets; and

programming the sequence for which the second group of power outlets is powered-on and powered-off.

15. (original) The power distribution method of claim 14, wherein the method further includes:

sensing current on the input power line; providing the sensed current to a micro-controller; and

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determining if the sensed current is below the normal-threshold value, wherein if the sensed current is below the normal-threshold value, the method further includes indicating a normal operation of the power distribution system.

16. (original) The power distribution method of claim 15, wherein the method further includes the steps of:

determining if the sensed current is above the normal-threshold value; and determining if the sensed current is below the overload-threshold value, wherein if the sensed current is above the normal-threshold value and below the overload-threshold value, the method further includes indicating a high current status of the power distribution system.

17. (original) The power distribution method of claim 16, wherein the method further includes the step of:

determining if the sensed current is above the overload-threshold value, wherein if the sensed current is above the overload-threshold value, the method further includes indicating an alarm status of the power distribution system.

- 18. (original) The power distribution method of claim 17, wherein if the sensed current is above the normal-threshold value and below the overload-threshold value, the method further includes controlling a first group of predetermined relays to actuate to a non-conductive state to power-off a number of associated power outlets.
- 19. (original) The power distribution method of claim 18, wherein if the sensed current is above the overload-threshold value, the method further includes controlling a second group of predetermined relays to actuate to a non-conductive state to power-off a number of associated power outlets.
- 20. (original) The power distribution method of claim 19, wherein the method further includes:

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controlling the plurality of relays to actuate to a non-conductive state in accordance with a predetermined sequence and a predetermined delay to sequentially power-off the second group of power outlets which are coupled to the relays; and

de-energizing the input power line defined on the power strip to power-off the first group of power outlets defined on the power strip.

- 21. (previously amended) The power distribution method of claim 14, wherein powering-on the second group of power outlets further includes illuminating a plurality of light-emitting-diodes associated with the second group of power outlets.
- 22. (original) The power distribution method of claim 14, wherein the method further includes programming a maximum current draw value.
  - 23. (original) A power distribution system, comprising:

a plurality of power strips, the power strips being mounted in an equipment rack, the equipment rack having a number of slots adapted to securely hold a number of pieces of equipment, each power strip including:

a housing having a first end and a second end;

a plurality of power outlets mounted on an exterior surface of the housing;

a power management circuit defined on an interior region of the housing, including:

a current sensor circuit that is adapted to receive input power over an input power line, the current sensor circuit being coupled to a power supply and to the power outlets;

a micro-controller coupled to the power supply and to a relay driver, the relay driver receiving control signals from the micro-controller; and

a plurality of relays coupled to the relay driver and to the power outlets, wherein the relays receive a control signal from the relay driver to actuate the relays to a conductive state to powering-on the power outlets and the relays receive another control signal from the relay driver to actuate the relays to a non-conductive state to powering-off the power outlets.

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24. (original) The power distribution system of claim 23, wherein the power strips mounted in the equipment rack are daisy chained together to form a scalable power strip.

- 25. (currently amended) An intelligent power strip, comprising:
- a housing;
- a first group of power outlets defined on the housing;
- a second group of power outlets defined on the housing;

a means for controlling power to the first and second groups of power outlets in accordance with a predetermined sequence and a predetermined delay to sequentially power-on the second group of power outlets, the means for controlling including:

a means for programming the sequence for which the second group of power outlets is powered-on and powered-off; and

a means for programming delays into the power strip, the delays being related to powering-on and powering-off the second group of power outlets;

a means for sensing current on the input power line; and

a means for determining if the sensed current is below a normal-threshold value, wherein if the sensed current is below the normal-threshold value, the power strip enables a means for indicating a normal operation of the power strip;

a means for determining if the sensed current is above the normal-threshold value; and a means for determining if the sensed current is below an overload-threshold value, wherein if the sensed current is above the normal-threshold value and below the overload-threshold value, the power strip enables a means for indicating a high current status of the power strip.

- 26. (canceled)
- 27. (previously canceled)
- 28. (canceled)

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29. (currently amended) The intelligent power strip of claim 28 25, wherein the intelligent power strip further comprises:

a means for determining if the sensed current is above the overload-threshold value, wherein if the sensed current is above the overload-threshold value, the power strip enables a means for indicating an alarm status of the power strip.

- 30. (original) The intelligent power strip of claim 29, wherein if the sensed current is above the normal-threshold value and below the overload-threshold value, the power strip further enables a means for controlling a first group of predetermined relays to actuate to a non-conductive state to power-off a number of associated power outlets.
- 31. (original) The intelligent power strip of claim 30, wherein if the sensed current is above the overload-threshold value, the power strip further enables a means for controlling a second group of predetermined relays to actuate to a non-conductive state to power-off a number of associated power outlets.
- 32. (original) The intelligent power strip of claim 31, wherein the power strip further includes:

a means for controlling the plurality of relays to actuate to a non-conductive state in accordance with a predetermined sequence and a predetermined delay to sequentially power-off the second group of power outlets which are coupled to the relays; and

a means for de-energizing the input power line defined on the power strip to power-off the first group of power outlets defined on the power strip.